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(54) **VEHICLE SEAT**

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**B60N 2/803** (2018.01)  
**B60N 2/64** (2006.01)

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(58) **Field of Classification Search**

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See application file for complete search history.

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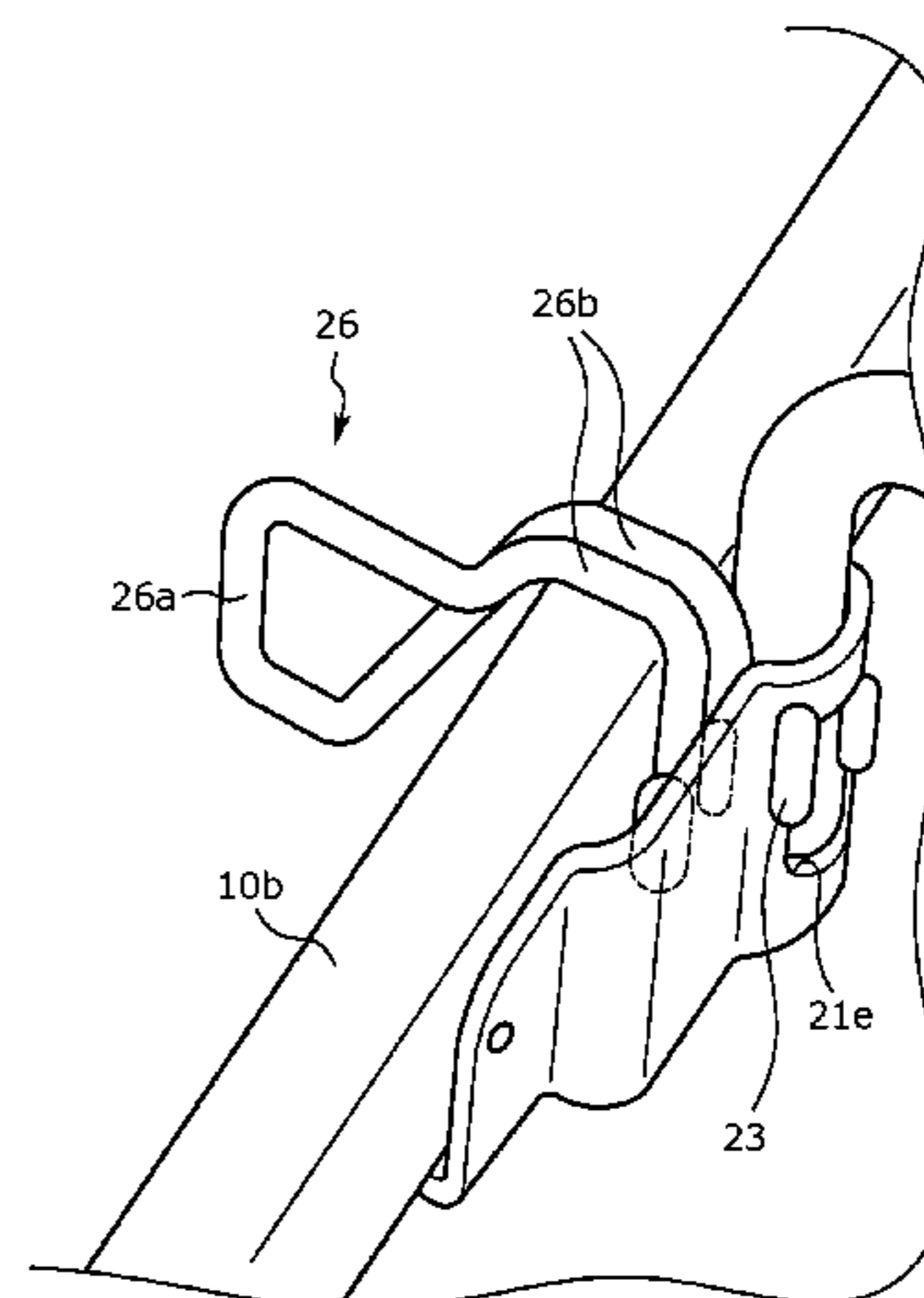
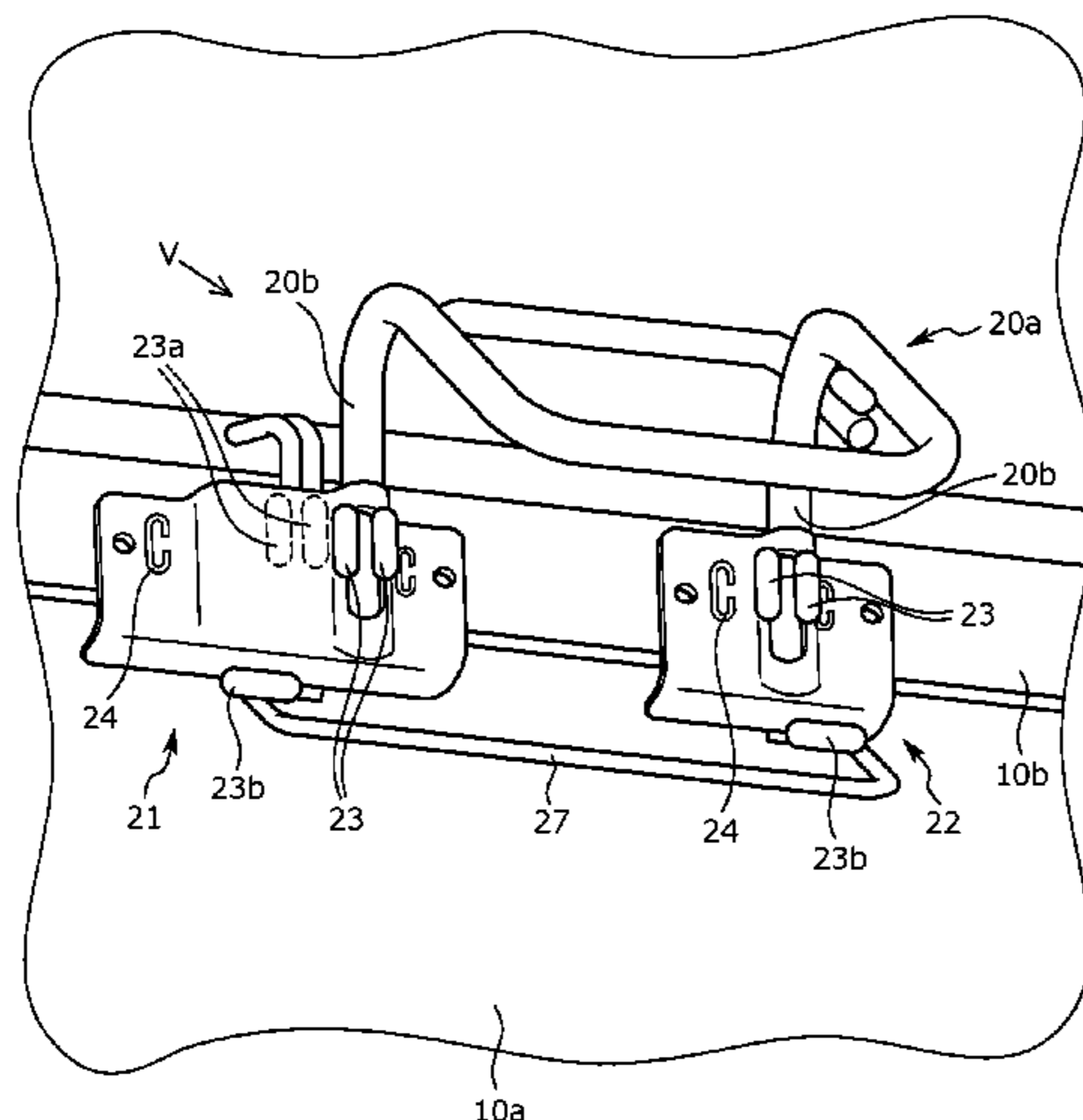
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(57) **ABSTRACT**

A vehicle seat is thinned in a seat front to back direction. In the vehicle seat, a center seat has a seat back frame, a headrest which is provided above the seat back frame, a pillar which supports the headrest, and brackets which mount the pillar to the seat back frame. The pillar is arranged between the brackets and the seat back frame, the brackets have a weld bead which holds the pillar and a portion where a welding trace to be mounted to the seat back frame is formed, and the weld bead and the portion where the welding trace is formed are arranged at different positions in a direction which intersects a front to back direction of the center seat.

**18 Claims, 6 Drawing Sheets**



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FIG. 1

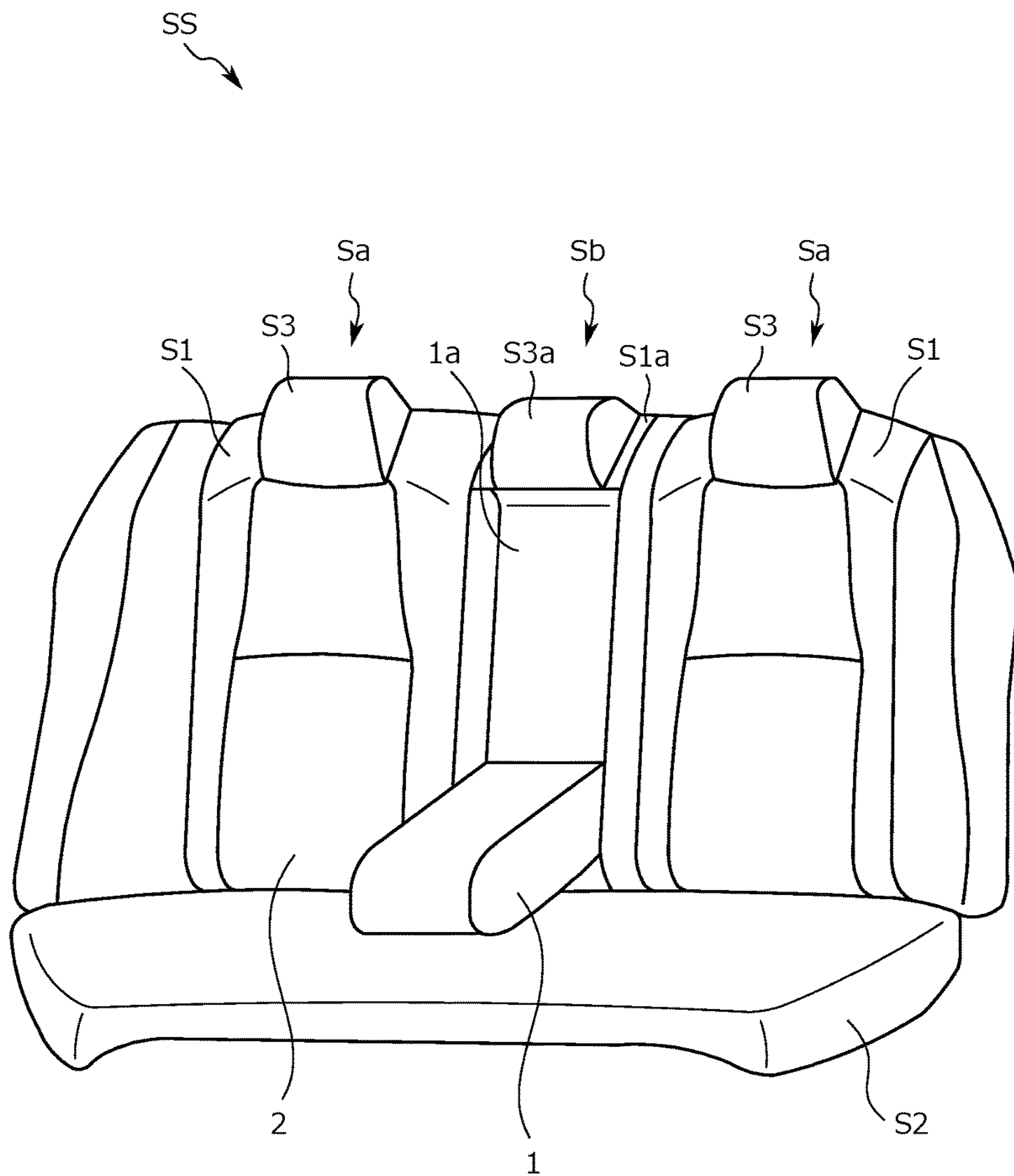


FIG. 2

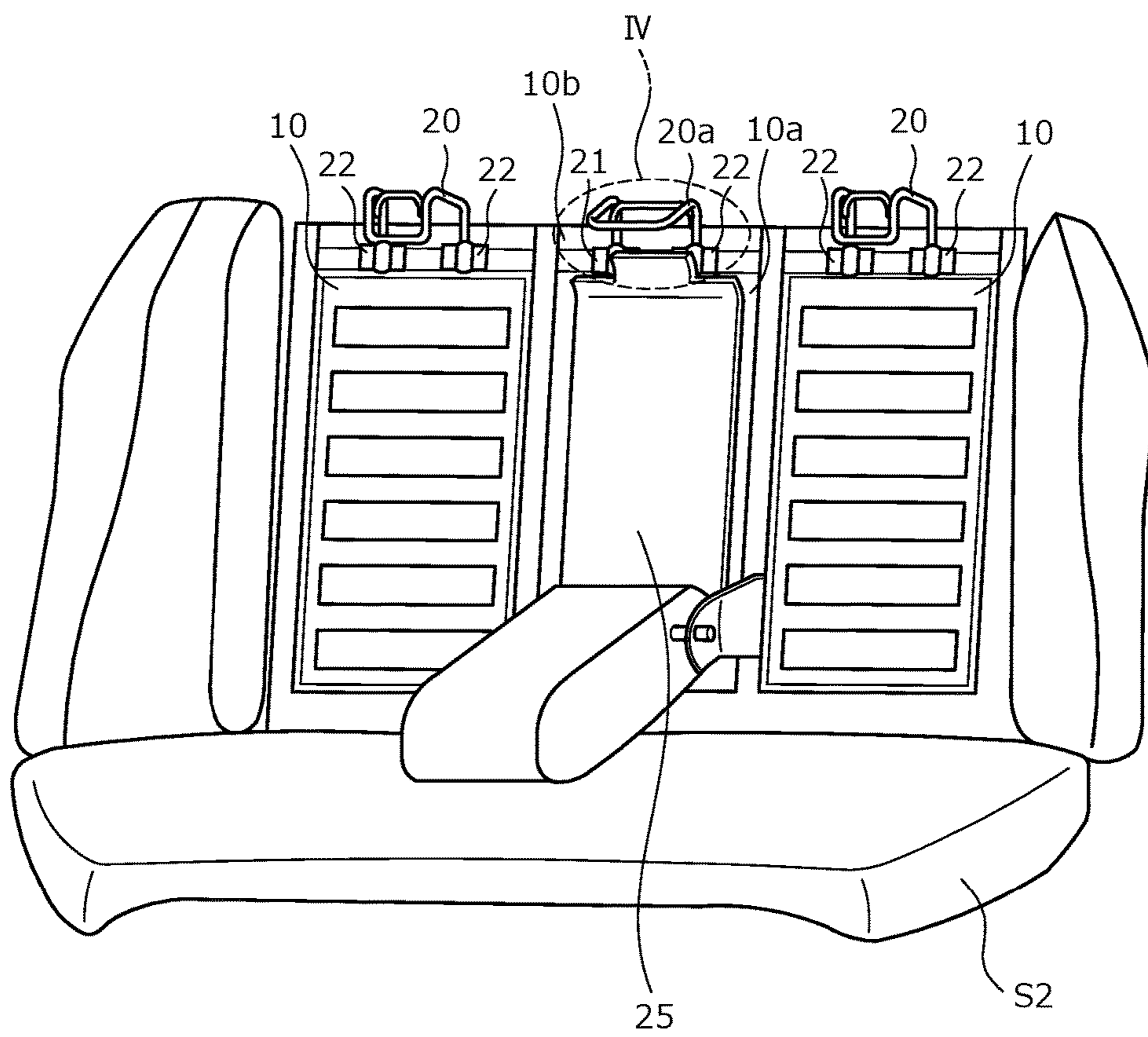


FIG. 3

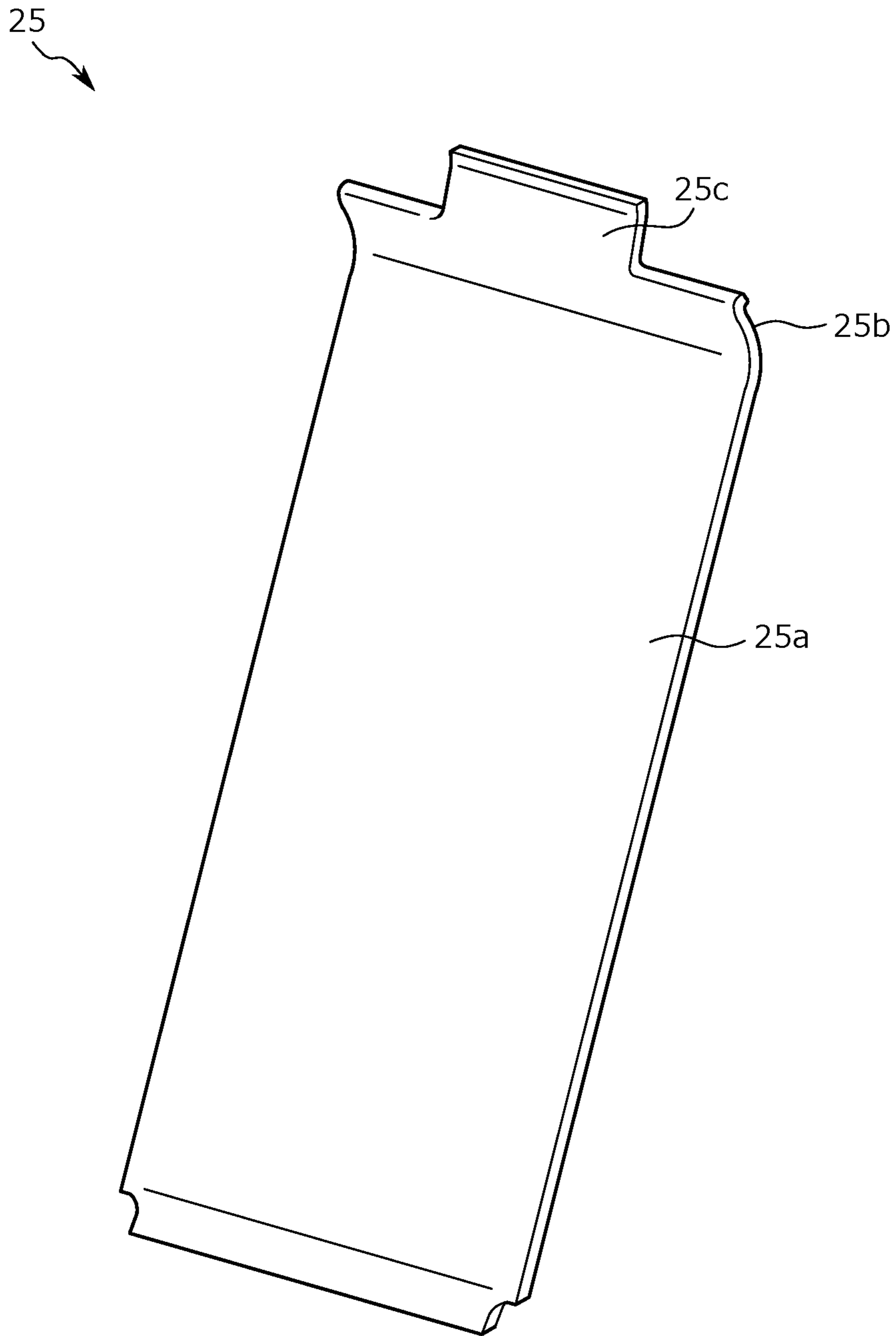




FIG. 4

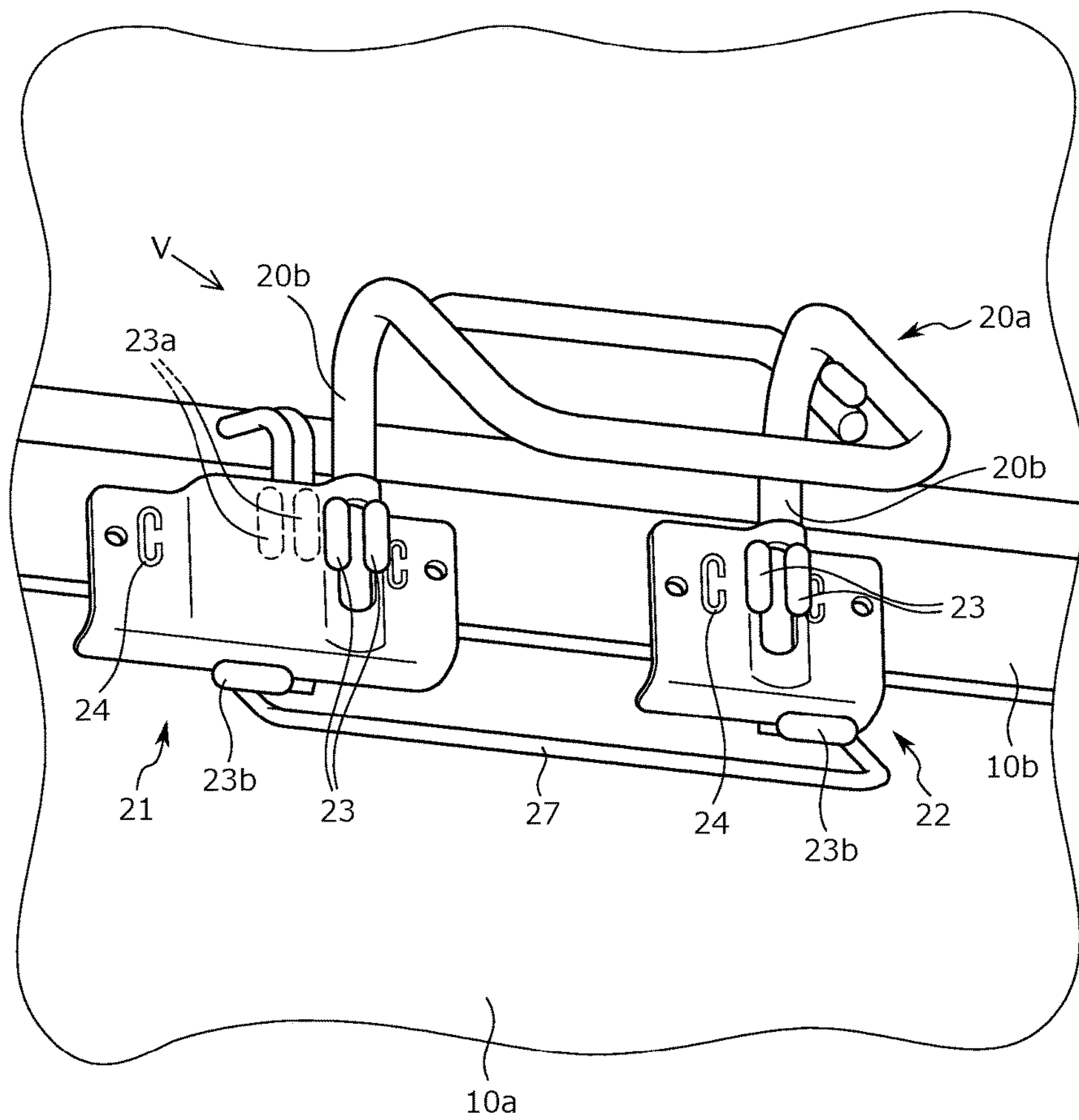


FIG. 5

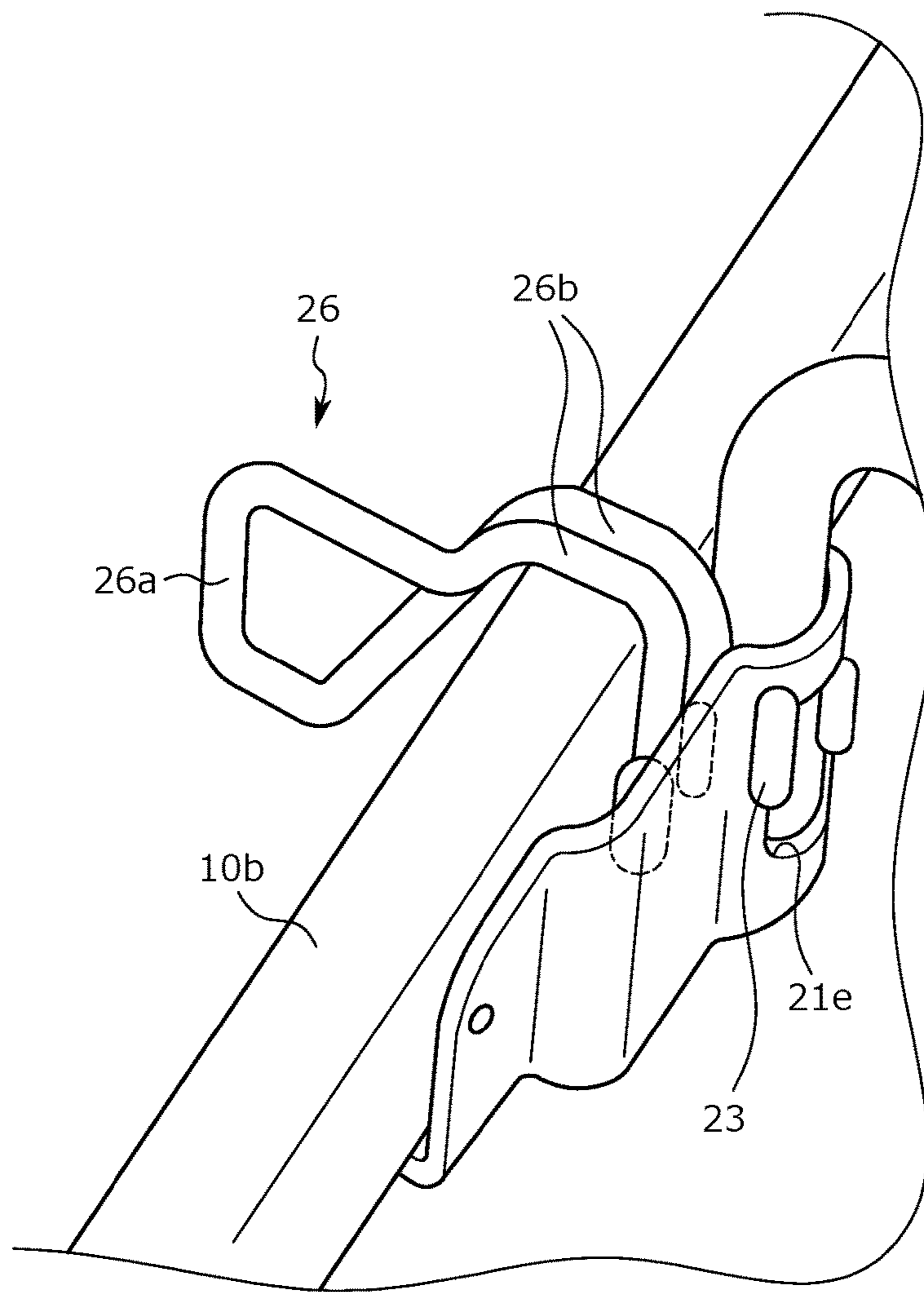
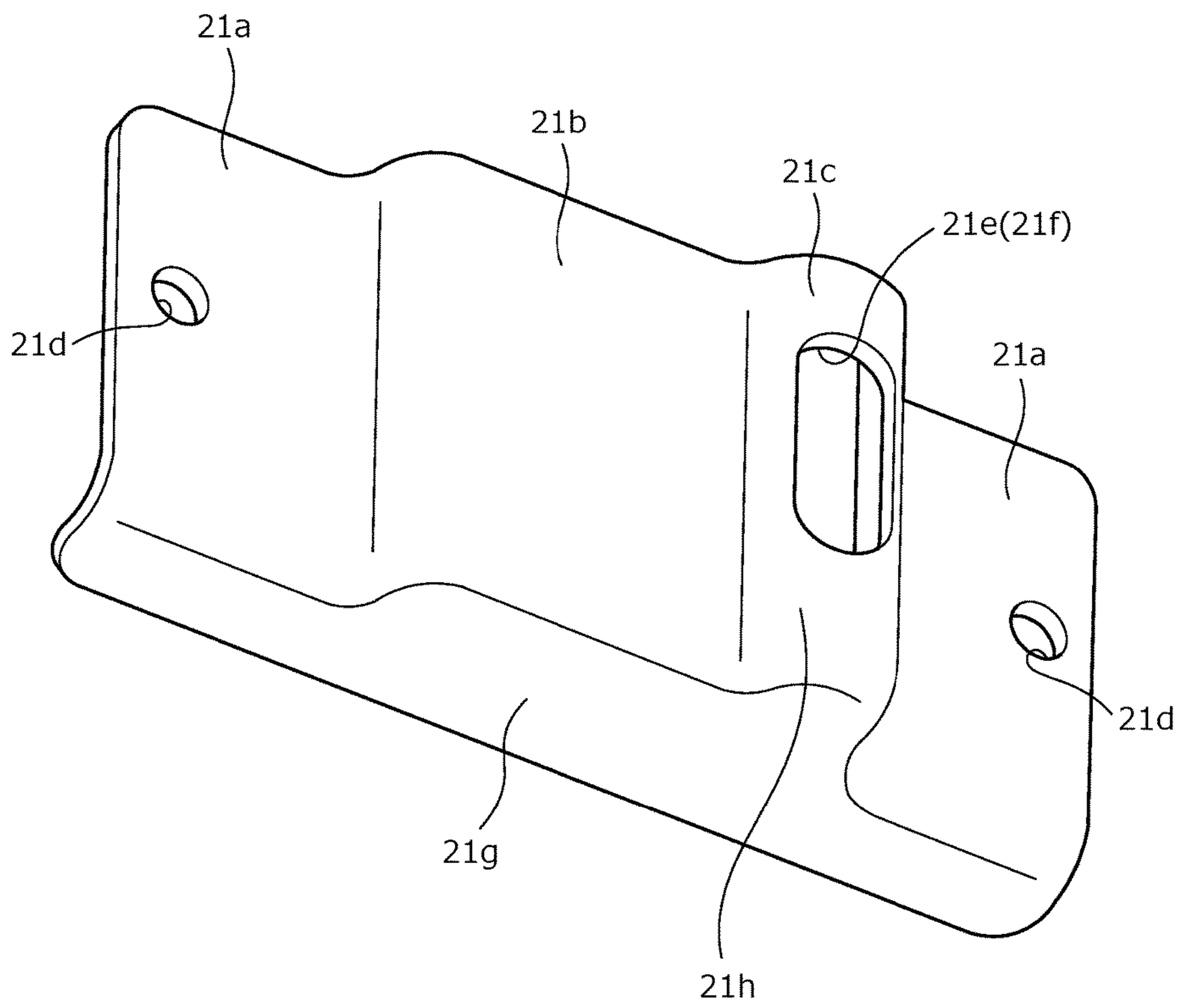


FIG. 6





# 1

## VEHICLE SEAT

### CROSS REFERENCE TO RELATED APPLICATIONS

This application is based on and claims the benefit of priority from the prior Japanese Patent Application JP 2016-152626, filed on Aug. 3, 2016, the entire contents of which are incorporated herein by reference.

### BACKGROUND OF THE INVENTION

#### Field of the Invention

The present invention relates to a vehicle seat, and, more specifically, to a vehicle seat provided with a mounting member for mounting a pillar to a seat back.

#### Description of the Related Art

Conventionally, in vehicle seats provided with a headrest, there are a vehicle seat in which a headrest is fixed to a seat back by a mounting member so as to be able to swing, a vehicle seat in which a headrest is directly fixed to a seat back so as not to be moved, and the like.

As an example of where a headrest is mounted to a seat back by a mounting member so as to be able to swing, Japanese Unexamined Patent Application Publication No. 2007-269100 discloses a vehicle seat in a structure in which they are fixed by fitting a mounting member, into which a pillar is inserted, in a frame.

Moreover, as an example of where a headrest is directly fixed to a seat back, Microfilm of Japanese Utility Model Application No. 58-102746 (Japanese Unexamined Utility Model Application Publication No. 60-10557) discloses a technique in which they are fixed by welding after inserting a cylindrical pillar in an opening in the upper portion of a frame.

However, in the structure of Japanese Unexamined Patent Application Publication No. 2007-269100, a portion holding the pillar and a portion abutting (fixed to) the frame is aligned in a seat front to back direction, and therefore a large space in the seat front to back direction had to be taken.

Moreover, rather than fixing the headrest to the seat back so as to be able to swing, it is conceivable that welding is applied in order to enhance bonding strength. In particular, if bonding of the pillar and the frame can be done by laser welding, bonding time can be shortened than by arc welding that is another welding method and generation of welding heat can be suppressed.

However, the structure of Microfilm of Japanese Utility Model Application No. 58-102746 (Japanese Unexamined Utility Model Application Publication No. 60-10557) was suited for arc welding but unsuited for laser welding because the cylindrical pillar needs to be welded to the frame. That is, in laser welding, a large weld bead as in arc welding is not generated, and therefore it is hard to fix the pillar, which is a cylindrical member, to the frame, and it was difficult to enhance bonding strength of the pillar and the frame.

Moreover, a lower end side of the pillar described particularly in FIG. 5 of Microfilm of Japanese Utility Model Application No. 58-102746 (Japanese Unexamined Utility Model Application Publication No. 60-10557) projects downward from a seat back frame main body, and the lower end side of the pillar sometimes touched a pad and a skin and damaged them.

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## SUMMARY OF THE INVENTION

The present invention has been made in view of the above-described problems, and an object thereof is to thin a vehicle seat in a seat front to back direction.

Moreover, another object of the present invention is to enhance bonding strength of a pillar and a mounting member.

Moreover, still another object of the present invention is to suppress a pad and a skin from being damaged.

In accordance with a vehicle seat of the present invention, the above problems are solved by the vehicle seat including a seat back frame, a headrest which is provided above the seat back frame, a pillar which supports the headrest, and a mounting member which mounts the pillar to the seat back frame, in which the pillar is arranged between the mounting member and the seat back frame, the mounting member has a holding part which holds the pillar and a fixed part which is mounted to the seat back frame, and the holding part and the fixed part are arranged at different positions in a direction which intersects a front to back direction of the vehicle seat.

In accordance with the above configuration, the holding part and the fixed part of the mounting member are arranged at different positions at the right and left of the vehicle seat, and an overlapping portion in a seat front to back direction for mounting the pillar to the seat back frame can be reduced, and therefore the vehicle seat can be thinned in the seat front to back direction.

Moreover, the pillar preferably abuts the seat back frame. In accordance with the above configuration, the pillar abuts the seat back frame and there is no other member therebetween, and therefore it becomes possible to further thin the vehicle seat.

Moreover, the holding part preferably has a curved form along a peripheral surface of a part of the pillar.

In accordance with the above configuration, the holding part has a curved form along the peripheral surface of a part of the pillar, and thereby variation in the distance between the pillar and the mounting member is suppressed, and bonding strength of the pillar and the mounting member can be enhanced when these are welded.

Moreover, preferably, the holding part is formed with an opening, an edge portion of the opening extends in the direction which intersects the front to back direction of the vehicle seat, and in the edge portion of the opening, a weld bead which bonds the pillar and the mounting member is formed.

In accordance with the above configuration, the weld bead is formed in the edge portion of the opening extending not in the front to back direction of the vehicle seat but in the direction which intersects the front to back direction, and therefore the vehicle seat can be thinned in the seat front to back direction.

Moreover, in a lower end portion of the mounting member, a front cover part which extends below a lower end portion of the pillar and covers the lower end portion of the pillar from the front is preferably provided.

In accordance with the above configuration, the front cover part covers the lower end portion of the pillar, and thereby capable of suppressing the pillar lower end portion from hitting against a pad and a skin and damaging them.

Moreover, in the lower end portion of the mounting member, a lower cover part which extends backwardly and covers the lower end portion of the pillar from below is preferably provided.

In accordance with the above configuration, the lower cover part covers the lower end portion of the pillar, and



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thereby capable of suppressing the pillar lower end portion from hitting against the pad and the skin and damaging them.

Moreover, the fixed part may be a portion which is formed with a linear welding trace.

In accordance with the above configuration, by laser welding, the mounting member and the seat back frame can be quickly welded in a portion where a linear welding trace such as in a C-shape or a J-shape is formed.

Moreover, a striker member provided at a different position in the direction which intersects the front to back direction of the vehicle seat with respect to the pillar may be included, and the striker member may be arranged between the mounting member and the seat back frame.

In accordance with the above configuration, the striker member does not overlap with the pillar in the front to back direction, and therefore it becomes possible to thin the vehicle seat.

Moreover, two or more mounting members provided at different positions at the right and left may be included, and a connecting member which connects at least two of the two or more mounting members may be provided.

In accordance with the above configuration, rigidity of the mounting member can be enhanced by connecting the mounting members by means of the connecting member. Moreover, by the connecting member, forward movement of members such as an armrest board located between the mounting members can also be suppressed.

Further, the connecting member may be a linear wire member.

In accordance with the above configuration, the connecting member is the wire member, and thereby capable of suppressing interference with other members.

In accordance with the present invention, the vehicle seat can be thinned in the seat front to back direction.

Moreover, in accordance with the present invention, bonding strength of the pillar and the mounting member can be enhanced when these are welded.

Moreover, in accordance with the present invention, the pad and the skin can be suppressed from being damaged.

Moreover, in accordance with the present invention, the mounting member and the seat back frame can be quickly welded in a portion where a linear welding trace is formed.

Moreover, in accordance with the present invention, rigidity of the mounting member can be enhanced, and forward movement of members located between the mounting members can be suppressed.

Moreover, the connecting member can be suppressed from interfering with other members.

#### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view showing an automotive vehicle seat set according to one embodiment of the present invention.

FIG. 2 is a perspective view showing a state that a skin and a cushion pad of a part of the automotive vehicle seat set shown in FIG. 1 are removed and seat back frames and the like are exposed.

FIG. 3 is a perspective view showing an armrest board to be mounted to the seat back frame.

FIG. 4 shows a IV portion of FIG. 2 and is a perspective view showing brackets which mount a headrest frame and the like.

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FIG. 5 shows the brackets and a striker member from a V direction of FIG. 4 and is a perspective view showing a mounted state of the striker member.

FIG. 6 is a perspective view showing the bracket.

#### DETAILED DESCRIPTION

Hereinafter, the configuration of a vehicle seat according to an embodiment of the present invention will be described.

It should be noted that the embodiment described below is for facilitating understanding of the present invention and does not intend to limit the present invention. As a matter of course, the present invention can be changed and improved without departing from the gist thereof, and equivalents thereof are included in the present invention.

In addition, in the following description, a “front to back direction” means a front to back direction viewed from a seated person seated on the vehicle seat, and is a direction corresponding to a traveling direction of a general vehicle. A “left and right direction” means a width direction of the vehicle seat. A “height direction” means a height direction of the vehicle seat, and corresponds to an up and down direction when viewed the vehicle seat from the front.

<Basic Configuration of Automotive Vehicle Seat Set>

Firstly, the basic configuration of an automotive vehicle seat set SS including side seats Sa and a center seat Sb as vehicle seats according to the present embodiment will be described with reference to FIG. 1. It should be noted that FIG. 1 is a perspective view showing the automotive vehicle seat set SS for rear seat according to one embodiment of the present invention.

The automotive vehicle seat set SS according to the present embodiment has almost the same configuration from the standpoint of appearance as a general automotive vehicle seat set on which three persons can be seated, and as shown in FIG. 1, is composed of the side seats Sa located on both sides, and the center seat Sb located in the center.

The side seats Sa and the center seat Sb have seat backs S1, S1a and headrests S3, S3a respectively, and share a seat cushion S2. Moreover, each of the side seats Sa and the center seat Sb includes a skin 2 on the outside surface thereof.

In particular, to the seat back S1a of the center seat Sb, an armrest 1 on which the arms of the seated persons on the side seats Sa can put is mounted, and an armrest storage part 1a which stores the armrest 1 so as to be capable of being drawn forward is formed.

Specifically, the armrest storage part 1a is a concave part formed in the center seat Sb, and its length in a direction, which is a substantially up and down direction, along the seat back S1a is formed longer than the length in a seat right and left direction.

The armrest 1 is mounted so as to be pivotable in the front to back direction around a horizontal axis laid on the lower side of the armrest storage part 1a.

<Internal Configuration of Side Seat and Center Seat>

Next, with reference to mainly FIG. 2 and FIG. 3, seat back frames 10, 10a and an armrest board 25 which are provided in the interior of the side seats Sa and the center seat Sb will be described. In addition, FIG. 2 is a perspective view showing a state that the skin 2 and a cushion pad (not shown) of a part of the automotive vehicle seat set SS shown in FIG. 1 are removed and the seat back frames 10, 10a and the like are exposed, and FIG. 3 is a perspective view showing the armrest board 25 to be mounted to the seat back frame 10a.



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The side seats Sa and the center seat Sb include the seat back frames 10, 10a serving as frameworks of the seat backs S1, S1a, and headrest frames 20, 20a serving as frameworks of a headrest S3 and supporting it, respectively, in the interior thereof.

In particular, to an upper frame 10b which is a member constituting the seat back frame 10a of the center seat Sb and extends in the seat right and left direction in the upper end portion of the seat back frame 10a, a striker member 26 shown in FIG. 5 and described later is mounted by a bracket 21 described later. To the striker member 26, a belt (not shown) is mounted, and the belt is fixed or released to a vehicle body, and thereby capable of changing the state of the automotive vehicle seat set SS to a rising state or a falling state. Specifically, the striker member 26 is formed by a pipe, and has an annular part 26a which is formed so that the belt (not shown) is mounted, and both end parts 26b which are formed to be adjacent. Further, the striker member 26 is welded to the rear surface of the bracket 21 so that the annular part 26a is arranged at the rear side of the upper frame 10b and the both end parts 26b are arranged at the front side of the upper frame 10b in a state that the bracket 21 is mounted to the upper frame 10b.

The headrest frames 20, 20a and brackets 21, 22 described later are bonded by arc welding, and the upper frame 10b of the seat back frames 10, 10a and the brackets 21, 22 are bonded by laser welding. It should be noted that a fixing (bonding) method of the upper frame 10b and the brackets 21, 22 is not limited to laser welding, and may be done with bolts and nuts, tapping screws, calking pins or the like.

Further, as shown in FIG. 2 and FIG. 3, on the front surface side of the seat back frame 10a included in the center seat Sb, the armrest board 25 serving as a decorative laminate of the armrest storage part 1a is mounted.

The armrest board 25 is formed into a plate-shape, and is mounted to the seat back frame 10a so that a short direction of the armrest board 25 is directed to the seat right and left direction and a long direction of the armrest board 25 is directed to a direction, which is a substantially up and down direction, along the seat back S1a.

Specifically, the armrest board 25 is composed of a main body part 25a, a folded part which extends to be bent from the upper end side to the front side of the main body part 25a, and a bent shape part 25c which extends to be bent upwardly from a tip of the folded part 25b.

The main body part 25a is located in a position facing the rear surface of the armrest 1 in a state that the armrest board 25 is mounted to the seat back S1a and in a state that the armrest 1 is stored.

The folded part 25b is located in a position facing the upper surface of the armrest 1 in a state that the armrest board 25 is mounted to the seat back S1a and in a state that the armrest 1 is stored.

The bent shape part 25c is formed to be narrower than the main body part 25a and the folded part 25b, and is located between two pillars 20b constituting the headrest frame 20a in a state that the armrest board 25 is mounted to the seat back S1a. In the case of a vehicle accident and the like, the bent shape part 25c abuts a wire member 27 shown in FIG. 4 and described later, and thereby the armrest board 25 is restricted from moving forward than the wire member 27.

Next, with reference to mainly FIG. 4 to FIG. 6, the brackets 21, 22 as mounting members for mounting the headrest frames 20, 20a and the like to the frame 10b will be described. In addition, FIG. 4 shows a IV portion of FIG.

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2 and is a perspective view showing the brackets 21, 22 which mount the headrest frame 20a, FIG. 5 shows the brackets 21, 22 and the striker member 26 from a V direction of FIG. 4 and is a perspective view showing a mounted state of the striker member 26, and FIG. 6 is a perspective view showing the bracket 21.

As described before, the brackets 21, 22 are components for mounting the headrest frames 20, 20a and the like to the upper frame 10b. One bracket 21 is mounted to each one of the pillars 20b of the headrest frame 20a. On the other hand, as for five brackets 22 in total, one bracket is mounted to one of the pillars 20b of the headrest frame 20a, and four brackets are mounted to each one of two pillars 20b constituting each of two headrest frames 20, respectively. Moreover, to a lower cover part 21g described later and constituting each of the bracket 21 and the bracket 22, an end part of the wire member 27 as a connecting member formed into an angular C-shape is bonded. That is to say, the bracket 21 and the bracket 22 are connected with the wire member 27.

The wire member 27 is bonded to the brackets 21, 22 so as to be arranged in front of the bent shape part 25c of the armrest board 25 in a state that the armrest board 25 and the brackets 21, 22 are mounted to the seat back frame 10a. The wire member 27 can restrict the movement of the armrest board 25 as described above. Furthermore, the wire member 27 connects the lower portions of the bracket 21 and the bracket 22 whose upper parts are bonded by the headrest frame 20a, thereby bonding strength of the bracket 21 and the bracket 22 is enhanced. It should be noted that the wire member 27 which connects the brackets 21, 22 is preferable in that it can be reduced in weight and in that interference with other members can be avoided, because of its small volume. However, if an effect of enhancing bonding strength is desired than those effects, a member which connects the brackets 21, 22 may be a plate-shaped member rather than a linear member like a wire.

(Shape of Bracket)

As shown in FIG. 6, the bracket 21 is composed of side parts 21a which are formed on both end sides in the seat right and left direction of the bracket 21 and welded to the upper frame 10b, a striker mounting wall part 21b to which the striker member 26 is welded, a pillar mounting wall part 21c to which the pillar 20b is welded, and the lower cover part 21g which covers the lower end of the pillar 20b from below.

Specifically, the side parts 21a located on the both end sides in the seat right and left direction of the bracket 21 is formed so as to extend in the same plane in the seat right and left direction along the front surface of the upper frame 10b. In the side parts 21a on the both end sides of the bracket 21, frame mounting holes 21d for positioning in setting to a laser welding jig are formed in symmetrical positions.

The striker mounting wall part 21b is formed continuously from the one side part 21a (on the left side in FIG. 6) to extend toward the other side part 21a (on the right side in FIG. 6), bulges forward from the side part 21a, and is formed in parallel to the side part 21a. In the rear of the striker mounting wall part 21b, the both end parts 26b of the striker member 26 are bonded with weld beads by arc welding applied from behind.

The pillar mounting wall part 21c serves as a holding part which holds with the weld beads the pillar 20b, and is formed along a peripheral surface of the pillar 20b. Specifically, the pillar mounting wall part 21c is formed continuously from the striker mounting wall part 21b to connect to the other side part 21a (on the right side in FIG. 6), is formed



to be curved into a cross-sectional circular arc shape, and is formed to bulge forward from the striker mounting wall part **21b**.

As thus described, the pillar mounting wall part **21c** is formed to be curved into a cross-sectional circular arc shape along the peripheral surface of the pillar **20b**, and thereby, when the weld beads **23** are formed between the pillar **20b** and the pillar mounting wall part **21c**, the weld beads **23** become easier to uniformly spread and it becomes possible to enhance bonding strength.

Moreover, the pillar mounting wall part **21c** is formed in a different position in the seat right and left direction from the striker mounting wall part **21b**. Therefore, the pillar **20b** and weld bead **23** to be mounted to the pillar mounting wall part **21c**, and the striker member **26** and weld bead **23a** to be mounted to the striker mounting wall part **21b** can be avoided from overlapping in the front to back direction. Accordingly, since interference in these arrangement can be avoided, the center seat **Sb** can be prevented from being thickened in the seat front to back direction. Furthermore, if the center seat **Sb** can be prevented from being thickened in the seat front to back direction, the positional relationship between the pillar **20b** and weld bead **23** and the striker member **26** and weld bead **23a** to be mounted to the striker mounting wall part **21b** is not limited to different positions in the seat right and left direction. For example, different positions in a direction which intersects the seat front to back direction such as different positions in a seat up and down direction are good enough.

Moreover, in a center portion in the up and down direction of the pillar mounting wall part **21c**, an opening **21e** which is a long hole formed long in the up and down direction to pass through in a thickness direction of the bracket **21** is formed. Due to the opening **21e**, when the pillar **20b** is abutted against the rear side of the pillar mounting wall part **21c**, the pillar **20b** will expose to the front surface side of the bracket **21** from the opening **21e**. Further, by applying arc welding to the pillar **20b** and an edge portion **21f** of the opening **21e** from the front side of the bracket **21** in a state that the pillar **20b** is abutted against the pillar mounting wall part **21c** as thus described, it is possible to bond the pillar **20b** and the bracket **21**, with the weld beads **23** as holding parts.

It should be noted that an edge portion **21f** of the opening **21e** is formed short in the front to back direction (the thickness direction of the bracket **21**) so as to extend in a direction along the opening **21e** of long hole (in other words, a direction which intersects the front to back direction). As thus described, since the weld beads **23** extend along the opening **21e** rather than in the front to back direction, the side seats **Sa** and the center seat **Sb** can be thinned in the seat front to back direction.

In particular, when the rear surface of the bracket is abutted against the upper frame **10b** in order to bond the bracket **21** and the upper frame **10b** by laser welding, bulges of the weld beads **23** in front of the bracket are not obstructive. In other words, since the weld beads **23** are not formed in the rear of the bracket **21**, the pillar **20b** can be abutted against the upper frame **10b**. That is to say, since other members do not exist between the pillar **20b** and the upper frame **10b**, the side seats **Sa** and the center seat **Sb** can be further thinned in the front to back direction.

In general, when the pillar **20b** is directly mounted to the upper frame **10b**, a part of the upper frame **10b** may be crushed and the pillar **20b** may be mounted to the crushed portion. In this case, section modulus of the upper frame **10b** is decreased, thus leading to reduction of rigidity. On the

other hand, since the bracket **21** according to the present embodiment is formed into a cross-sectional circular arc shape and is welded to the pillar **20b** in a state that the pillar **20b** is not crushed, reduction of rigidity does not occur.

In addition, the bracket **21** is formed long downwardly below the lower end portion of the pillar **20b**, and the lower end side of the pillar mounting wall part **21c** serves as a front cover part **21h** which covers the front of the lower end portion of the pillar **20b**. As thus described, the front cover part **21h** covers the lower end portion of the pillar **20b**, and thereby capable of suppressing the lower end portion of the pillar **20b** from scraping the cushion pad (not shown) and the skin **2** and damaging them.

The lower cover part **21g** is provided continuously from the respective lower ends of the side parts **21a** on the both end sides in the seat right and left direction, the striker mounting wall part **21b**, and the pillar mounting wall part **21c**, and is provided to be bent from the respective one so as to extend to the rear side and cover the lower end of the pillar **20b** from below. As thus described, the lower cover part **21g** covers the lower end portion of the pillar **20b**, and thereby capable of suppressing the lower end portion of the pillar **20b** from scraping the cushion pad (not shown) and the skin **2** and damaging them.

It should be noted that since the bracket **22** has almost the same configuration as that of the bracket **21** except that it is formed smaller in the seat right and left direction without the striker mounting wall part **21b** of the bracket **21**, a detailed description thereof will be omitted.

(Bonding by Welding)

To the bracket **21**, with weld beads **23**, **23a**, **23b** formed by arc welding, the one pillar **20b** constituting the headrest frame **20a**, the both end parts **26b** of the striker member **26**, and one side of the wire member **27** are bonded. Further, the side parts **21a** of the bracket **21** and the upper frame **10b** are bonded in a portion where a linear welding trace **24** formed in a C-shape by laser welding is formed. Specifically, in the portion where the welding trace **24** is formed, the portion fused by laser welding at the back surface side of the side part **21a** serves as a fixed part which fixes the bracket **21** and the upper frame **10b**. It should be noted that the welding trace **24** is not limited to a C-shape, and may be a U-shape or an O-shape. As thus described, the welding trace is linearly formed, and thereby the welding trace by laser welding can be easily formed and it is possible to perform laser welding quickly and effectively.

Moreover, to the bracket **22** of the center seat **Sb**, with the weld beads **23**, **23a**, **23b** formed by arc welding, the other pillar **20b** constituting the headrest frame **20a**, and the other side of the wire member **27** are bonded. Moreover, to the brackets **22** of the side seats **Sa**, each of the pillars **20b** on both sides constituting the headrest frame **20** is bonded.

In particular, in the bracket **21**, the pillar mounting wall part **21c** on which the weld bead **23** to be fixed to the pillar **20b** is piled and the side part **21a** having the portion where the welding trace **24** to be fixed to the upper frame **10b** is formed are formed in different positions in the seat right and left direction. Therefore, the weld bead **23** and the portion where the welding trace **24** is formed do not overlap in the seat front to back direction, and the side seats **Sa** and the center seat **Sb** can be prevented from being thickened in the seat front to back direction. Furthermore, if the side seats **Sa** and the center seat **Sb** can be prevented from being thickened in the seat front to back direction, the positional relationship between the weld bead **23** and the portion where the welding trace **24** is formed is not limited to different positions in the seat right and left direction, and different



positions in a direction which intersects the seat front to back direction such as different positions in a seat up and down direction are good enough.

Moreover, in the side seats Sa, separately from the seat back frame **10** large in size, the headrest frame **20** can be surely and easily fixed to the bracket **22** with the weld beads **23** by arc welding. Furthermore, the bracket **22** is laser-welded to the upper frame **10b** of the seat back frame **10**, and thereby capable of easily mounting the headrest frame **20** to the seat back frame **10** at once as a whole.

Similarly, also in the center seat Sb, separately from the seat back frame **10** large in size, the headrest frame **20a**, the striker member **26**, and the wire member **27** can be surely and easily fixed to the brackets **21**, **22** with the weld beads **23**, **23a**, **23b** by arc welding.

Furthermore, the brackets **21**, **22** are laser-welded to the upper frame **10b** of the seat back frame **10a**, and thereby capable of easily mounting the headrest frame **20a**, the striker member **26**, and the wire member **27** to the seat back frame **10a** at once as a whole.

Moreover, since the pillar **20b** is completely sandwiched between the brackets **21**, **22** and the seat back frames **10**, **10a**, fixity of the pillar **20b** is very excellent. However, when sandwiching without considering fixed points, the thickness in the seat front to back direction is increased due to the bulges by the weld beads **23** and the like for fixing. As a solving means thereof, the configuration in which the weld bead **23** that is the holding part of the pillar **20b** and the portion where the welding trace **24** that is the fixed part of the seat back frame **10a** is formed are set in different positions in the right and left direction is adopted. Thereby, coexistence of good fixity and compactness can be realized.

In the present embodiment, the two brackets **22** of the side seats Sa and the brackets **21**, **22** of the center seat Sb are described as different things, but these may be integrally formed. Furthermore, these are integrally formed, and the integrated brackets **21**, **22** may serve as a member which restricts the movement of the armrest board **25** as with the wire member **27**.

Moreover, the brackets **21**, **22** are described as being mounted to the front surface of the upper frame **10b** of the seat back frames **10**, **10a**, but these may be mounted to the rear surface. That is to say, in this case, the pillar **20b** of the headrest frame **20** and the striker member **26** are arranged between the back surface of the upper frame **10b** and the brackets **21**, **22**.

It should be noted that in the above embodiment, the automotive vehicle seat for rear seat has been described as an example, but it is not limited to the seat for rear seat as long as the pillar is mounted to the seat back frame with the bracket.

Furthermore, the vehicle seat has been described as an example in the above embodiment, but the present invention is applicable to seats for vehicles such as an aircraft, a ship, and an industrial machine, as well as the automotive vehicle.

What is claimed is:

**1.** A vehicle seat comprising:

- a seat back frame;
- a headrest which is provided above the seat back frame;
- a pillar which supports the headrest;
- a mounting member which mounts the pillar to the seat back frame; and
- a striker member provided at a different position in a direction which intersects a front to back direction of the vehicle seat with respect to the pillar,

wherein

the pillar is arranged between the mounting member and the seat back frame,

the mounting member has a holding part which holds the pillar and a fixed part which is mounted to the seat back frame,

the holding part and the fixed part are arranged at different positions in the direction which intersects the front to back direction of the vehicle seat,

the striker member is a linear member and is arranged between the mounting member and the seat back frame.

**2.** The vehicle seat according to claim **1**, wherein the pillar abuts the seat back frame.

**3.** The vehicle seat according to claim **2**, wherein the holding part has a curved form along a peripheral surface of a part of the pillar.

**4.** The vehicle seat according to claim **1**, wherein the holding part is formed with an opening, an edge portion of the opening extends in the direction which intersects the front to back direction of the vehicle seat, and

in the edge portion of the opening, a weld bead which bonds the pillar and the mounting member are formed.

**5.** The vehicle seat according to claim **1**, wherein in a lower end portion of the mounting member, a front cover part which extends below a lower end portion of the pillar and covers the lower end portion of the pillar from the front is provided.

**6.** The vehicle seat according to claim **1**, in a lower end portion of the mounting member, a lower cover part which extends backwardly and covers a lower end portion of the pillar from below is provided.

**7.** The vehicle seat according to claim **1**, the fixed part is a portion which is formed with a linear welding trace.

**8.** The vehicle seat according to claim **1**, wherein two or more mounting members provided at different positions at right and left is included, and a connector which connects at least two of the two or more mounting members is provided.

**9.** The vehicle seat according to claim **8**, the connector is a linear wire member.

**10.** A vehicle seat comprising:

- a seat back frame;
- a headrest which is provided above the seat back frame;
- a pillar which supports the headrest; and
- a mounting member which mounts the pillar to the seat back frame, wherein

the pillar is arranged between the mounting member and the seat back frame,

the mounting member has a holding part which holds the pillar and a fixed part which is mounted to the seat back frame,

the holding part and the fixed part are arranged at different positions in a direction which intersects a front to back direction of the vehicle seat,

the mounting member comprises two or more brackets which are provided at different positions in a seat right and left direction,

a connector which directly connects at least two of the two or more brackets is provided, wherein the connector is formed by a single member,

the holding part is formed with an opening, an edge portion of the opening extends in the direction which intersects the front to back direction of the vehicle seat, and

in the edge portion of the opening, a weld bead which bonds the pillar and the mounting member are formed.

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**11.** The vehicle seat according to claim **10**, wherein the pillar abuts the seat back frame.

**12.** The vehicle seat according to claim **11**, wherein the holding part has a curved form along a peripheral surface of a part of the pillar.

**13.** The vehicle seat according to claim **10**, wherein in a lower end portion of the mounting member, a front cover part which extends below a lower end portion of the pillar and covers the lower end portion of the pillar from the front is provided.

**14.** The vehicle seat according to claim **10**, in a lower end portion of the mounting member, a lower cover part which extends backwardly and covers a lower end portion of the pillar from below is provided.

**15.** The vehicle seat according to claim **10**, the fixed part is a portion which is formed with a linear welding trace.

**16.** The vehicle seat according to claim **10**, wherein a striker member provided at a different position in the direction which intersects the front to back direction of the vehicle seat with respect to the pillar is included, and

the striker member is arranged between the mounting member and the seat back frame.

**17.** The vehicle seat according to claim **10**, the connector is a linear wire member.

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**18.** A vehicle seat comprising:

a seat back frame;

a headrest which is provided above the seat back frame;

a pillar which supports the headrest; and

a mounting member which mounts the pillar to the seat back frame, wherein

the pillar is arranged between the mounting member and the seat back frame,

the mounting member has a holding part which holds the pillar and a fixed part which is mounted to the seat back frame,

the holding part and the fixed part are arranged at different positions in a direction which intersects a front to back direction of the vehicle seat,

the mounting member comprises two or more brackets which are provided at different positions in a seat right and left direction,

a connector which directly connects at least two of the two or more brackets is provided, wherein the connector is formed by a single member,

a striker member provided at a different position in the direction which intersects the front to back direction of the vehicle seat with respect to the pillar is included, and

the striker member is arranged between the mounting member and the seat back frame.

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